Notice of Allowability	Application No.	Applicant(s)
	09/759,877	NOBLE, STEPHEN W.
	Examiner	Art Unit
	David H Kruse	1638
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS . This application is	n this application. If not included unication will be mailed in due course. THIS
1. 🛮 This communication is responsive to the Amendment filed	23 March 2004.	
2. 🗵 The allowed claim(s) is/are <u>1-4,63-67 and 83-91, renumbe</u>	<u>red 1-18</u> .	
3. The drawings filed on are accepted by the Examine	er.	
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	- ,,,,	or (f).
2. Certified copies of the priority documents have	e been received in Application	on No
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	son's Patent Drawing Revie	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1		
each sheet. Replacement sheet(s) should be labeled as such in t	he header according to 37 Cl	FR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	ummary (PTO-413), /Mail Date <i>SAME</i> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 		Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	- •

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lila Akrad on 14 April 2004.

The application has been amended as follows:

The Abstract of the Invention has been replaced with the following;

-- This invention relates to a hybrid maize plant, designated as 34M94, produced by crossing two Pioneer Hi-Bred International, Inc inbred maize lines GE568044 and GE533486. This invention thus relates to the hybrid seed 34M94, the hybrid plant produced from the seed, and variants and trivial modifications of hybrid 34M94. This invention also relates to methods for producing a 34M94 hybrid maize plant containing genetic material for one or more desirable traits and to the maize plant produced by that method. This invention further relates to methods for making maize lines produced from hybrid maize line 34M94. --

The claims have been amended as follows:

Claim 84 (amended): A method of introducing a desired trait into a hybrid maize line 34M94 comprising:

(a) crossing at least one of inbred maize parent plants GE568044 and GE533486, representative [samples] seed of which have been deposited under ATCC

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Accession Nos. as ____ and ____ respectively, with another maize line that comprises a desired trait, to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, disease resistance and waxy starch;

- (b) selecting said F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) backcrossing the selected progeny plants with said inbred maize parent plant to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have the desired trait and morphological and physiological characteristics of said inbred maize parent plant to produce selected backcross progeny plants;
- (e) repeating the steps [of backcrossing to said inbred maize parent plant] (c) and (d) three or more times in succession to produce <u>a</u> selected fourth or higher backcross progeny plant[s]; <u>and</u>
- (f) crossing said <u>fourth or higher</u> backcross progeny plant with the other inbred maize parent plant to [generate] <u>produce</u> a hybrid maize line 34M94 with the desired trait and all of the morphological and physiological characteristics of hybrid maize line 34M94 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 89 (amended): A method of modifying fatty acid metabolism, phytic acid metabolism or carbohydrate metabolism in a hybrid maize line 34M94 comprising:

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- (a) crossing at least one of inbred maize parent plants GE568044 and GE533486, representative [samples] seed of which have been deposited under ATCC Accession Nos. as ____ and ___ respectively, with another maize line that comprises a nucleic acid molecule encoding an enzyme selected from the group consisting of phytase, steryl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme;
- (b) selecting said F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) backcrossing the selected progeny plants with said inbred maize parent plant to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have the desired trait and morphological and physiological characteristics of said inbred maize parent plant to produce selected backcross progeny plants;
- (e) repeating the steps [of backcrossing to said inbred maize parent plant] (c) and (d) three or more times in succession to produce a selected fourth or higher backcross progeny plant[s]; and
- (f) crossing said <u>fourth or higher</u> backcross progeny plant with the other inbred maize parent plant to [generate] <u>produce</u> a hybrid maize line 34M94 with the desired trait and all of the morphological and physiological characteristics of hybrid maize line 34M94 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

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2. Applicant approved the proposed amendments in an interview on 14 April 2004, see attached Summary.

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3. Applicant is reminded that upon the issuance of a Notice of Allowability, the requirements under 37 C.F.R § 1.809 (c)-(e) must be perfected in the instant application prior to or at the time of payment of the issue fee.

REQUIREMENT OF ALLOWANCE UNDER 37 CFR §§ 1.801-1.809

4. The Deposit Statement in the specification, as amended in the Response filed 27 March 2003, is deemed in accordance with 37 CFR §§ 1.801-1.809. Since the application is otherwise in condition for allowance except for the needed deposit of seed, and since the Office has received written assurance that an acceptable deposit will be made on or before payment of the issue fee, the Office is authorized to mail Applicant a Notice of Allowance and Issue Fee Due together with a requirement that the needed deposit be made within THREE (3) MONTHS of the mail date of this letter (see 37 CFR § 1.809(c)).

As set forth in 37 CFR § 1.809(c), Applicant is required to deposit 2500 seeds of the claimed plant within THREE (3) MONTHS of the mail date of this letter; thus the time for making the deposit is on or before the payment of the issue fee.

Applicant is reminded that once the deposit of seed has been made, information regarding the date of deposit, description of the deposited material including number of seeds deposited, name and address of the depository, and the accession number must be added to the specification in order to comply with 37 CFR § 1.809(d). In addition, the claims must be amended to replace the blank "_____ " with the appropriate Accession Number. Amendments to the specification and the claims must be filed under 37 CFR § 1.312.

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- 5. The requirement for payment of an extension of time to enter the Examiner's amendment is waived because Applicant had addressed all of the substantive issues in the Amendment filed 23 March 2004.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Kruse, Ph.D. whose telephone number is (571) 272-0799. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Amy Nelson can be reached at (571) 272-0804. The fax telephone number for this Group is (703) 872-9306 Before Final or (703) 872-9307 After Final.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose telephone number is (571) 272-0547.

Devic Mhuse AU 1638

David H. Kruse, Ph.D. 14 April 2004